Midterm Review Pre-calculus

1. Convert 135˚ to radian measure.
2. Convert  to degrees.
3. What is the reference angle for 240o?
4. What is the least positive angle that is coterminal with 595˚?
5. What is the value of?
6. What is the value of?
7. What is the period of?
8. Graph 
9. What is the period of
10. What is the value of?
11. Given the point (-1, 6) is a point on the terminal side of an angle, find csc 
12. Graph 
13. What is the phase shift of 
14. What is the value of?
15. What is the amplitude of 
16. Find the area of the triangle with   

**Solve each triangle**

1.   
2.   
3. b = 6 c = 7 a = 8
4. a = 9 c = 12 

**Determine the number of possible solutions.**

1.  a = 5 b = 24
2.  b = 10 a = 8.2
3.  a = 6 c = 10

**Solve for** 

1. 
2. 
3. 

**Find the solution of the system using matrices:**

 **27.** 

Find the determinant of:

 28. 

 29. 

Find the inverse of:

 30. $\left[\begin{matrix}3&-1&2\\4&-2&0\\0&-3&-4\end{matrix}\right]$

Find the area of the triangle using matrices:

 31. Find the Area of the region bounded by the given coordinates:

 (-1 , 3) (5 , 2) (9 , 4)